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CC: "Michael PINTO" <michael.pinto@totalenergies.com>
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Date: 12/5/2021 8:58:54 PM
Subject: Arkema Sediment Coring Update - 11/22/2021 to 12/3/2021
Attachments: [SC-88_Advancing Core.jpg](#)
[SC-88_Retrieving Core.jpg](#)
[Sediment Processing.jpg](#)
[Vibracoring_Advancing Core.jpg](#)
[Vibracoring_Retrieving Core.jpg](#)
[Coring Status Map_2021-12-03.pdf](#)

Hi Madi,

The Arkema sediment coring work started on November 22, 2021. This email message provides a summary of the cores attempted and collected between November 22, 2021 and December 3, 2021. A total of 10 core stations were successfully completed and an additional 6 core stations were either attempted unsuccessfully or were inaccessible to the vibracore vessel due to the low river stage. The attached Working Draft Coring Status Map presents general notes on each of these locations. The attached photos show the sediment processing area, vibracore activities, and the collection of the cores at SC-88 from the channel of Saltzman Creek using an impact corer.

The completed stations are as follows (see attached Working Draft Coring Status Map for locations):

- ☐ SC-75 (12/02/2021). Drive depth: 18.5 ft bml. Recovery: 99%.
- ☐ SC-77 (11/30/2021). Drive depth: 16.2 ft bml (refusal). Recovery: 82%.
 - SC-79 (11/30/2021). Drive depth: 17.3 ft bml (refusal). Recovery: 92%.
 - SC-80 (12/3/2021). Drive depth: 14.5 ft bml. Recovery: 85%.
 - SC-83 (11/29/2021). Drive depth: 19.4 ft bml. Recovery: 87%.
 - SC-88 (12/2/2021). Two cores were collected from the channel of Saltzman Creek. Drive depths: 6.1 ft bgs (Core 1) and 6.9 ft bgs (Core 2). Recovery: 100%.
 - SC-89 (11/29/2021). Drive depth: 19.0 ft bml. Recovery: 88%.
 - SC-90 (12/1/2021). Drive depth: 12.1 ft bml (refusal). Recovery: 79%.
 - SC-91 (12/1/2021). Drive depth: 10.4 ft bml (refusal). Recovery: 69%.
 - SC-92 (12/3/2021). Drive depth: 14.5 ft bml. Recovery: 83%.

The stations attempted but not successfully completed are as follows (see attached Working Draft Coring Status Map for locations):

- ☐ SC-81, SC-82, SC-87 (11/22/2021). Not accessible to vessel due to low river stage.
- ☐ SC-84 (11/22/2021). Limited recovery (3 ft) on 2 attempts. A third attempt will be conducted at a future date.
- ☐ SC-85 (12/3/2021). Limited recovery (0-50%) on 3 attempts.
- ☐ SC-93 (11/30/2021). Limited recovery (45-50%) on 2 attempts. Shallow water depth (3.5 ft) did not allow the use of a 15 ft core tube, so 10 ft core tubes were used. A third attempt will be conducted at a future date.

Legacy Site Services is evaluating options for collecting sediments where adequate core recovery has not been possible to date.

No health and safety incidents occurred during this fieldwork period.

The following Field Change Request forms have been submitted and approved by EPA FCR-07 (Use of Lexan core tubes for vibracoring), FCR-08 (SC-88 sediment sample collection methods), FCR-09 (PPE and COVID-19 requirements), FCR-10

(Core tube management), and FCR-11 (Dry suit use for coring activities). There were no other substantive deviations from the PDI work plan.

Please let me or Mike know if you have any questions. Thanks!

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